TallyGenicom 9316 User's Guide

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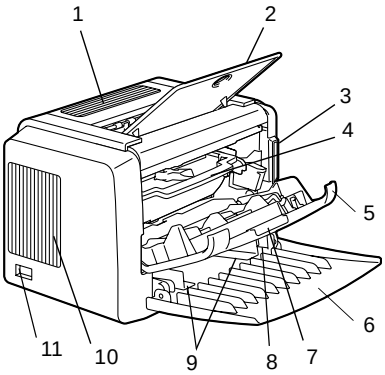
1 Introduction

Getting Acquainted with Your Printer

Printer Parts

The following drawings illustrate the parts of your printer referred to throughout this guide, so please take some time to become familiar with them.

Front View



1—Top cover

2—Output tray

3—Control panel

4—Imaging cartridge (Toner cartridge plus Drum cartridge)

5—Front cover

6—Tray 1

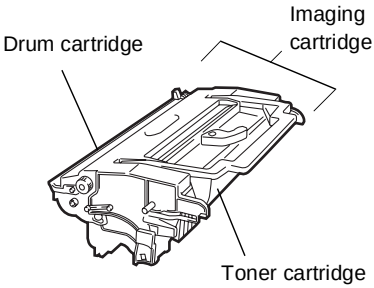
7—Front cover grip

8—Paper guide stopper

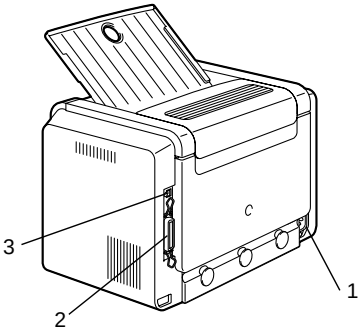
9—Paper guides

10—Ventilation grilles

11—Power switch



Rear View



1—AC power connection

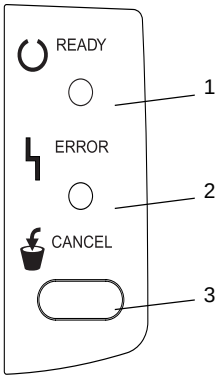
2—Parallel port

3—USB port

About the Indicator Functions

Indicator Functions

The control panel has two indicators and one button. The control panel indicators provide information on the status of the printer.



1—Ready indicator

2—Error indicator

3—Cancel button

The Cancel button allows you to:

- Continue a print job after an error message
- Cancel a print job

Continuing a Print Job after an Error Message

You can continue the print job after correcting the following types of errors:

- When the print job is too complex and the memory capacity of the printer is inadequate
- When there is no more paper in the tray
- When paper of a different format than that set in the printer driver was fed into the printer

1 Check that one of the above errors has occurred.

2 Perform the remedial action according to the error.

3 Press the Cancel button to operate the media feed.
The print job continues.

For details on the error messages, refer to chapter 8, “Troubleshooting” on page 47.

Cancelling a Print Job

You can cancel a print job that is currently being processed.

1 While data is being processed or printed (the green “Ready” indicator is blinking), hold down the Cancel button for more than 5 seconds.

2 Release the Cancel button after both indicators light up.
The current print job has now been cancelled.

The indicators may show five types of signals:

- Off
- On
- Slow blinking—1 blink every 2 seconds
- Blinking—1 blink per second
- Rapid blinking—2 blink per second

Status Message

Status messages indicate the current condition of the printer. The printer status also can be checked on the Status Display. (Refer to the “Working with the Status Display” on page 16.)

Ready indicator (green)	**Error indicator (orange)**	**Condition**	**Action**
Off	Off	Power off	None
On	Off	Ready to print	None
Rapid blinking	Off	Warming up	None
Blinking	Off	Processing data	None
		Printing	
On	On	Initializing (power on)	None
		Canceling a print job	
Slow blinking	Off	Power save mode	None

Ready indicator (green)	Error indicator (orange)	Condition	Action
On	Slow blinking	Toner near empty	Prepare the toner cartridge.
On	Blinking	Toner empty	Replace the toner cartridge.
On	Rapid blinking	Toner out	Replace the toner cartridge.
		No toner cartridge is installed.	Install the toner cartridge.

Note

If the toner cartridge that is used is not genuine, cleaning will be performed after each page printed, which will reduce the printing speed.

2

Software Installation

Installing the USB Device Driver

When connecting the printer to your computer with a USB cable, install the USB device driver according to the following instructions before installing the printer driver.

Note

In Windows 2000/XP, you do not have to install the USB device driver. When the "Found New Hardware" wizard dialog box appears, cancel it.

Installing the USB Device Driver under Windows Me and 98

1. Turn on your computer.
2. Turn on the printer.
3. When Windows and the printer are both ready, insert the CD-ROM, included with your printer, into your computer's CD-ROM drive.
4. Connect the printer to the computer with the USB cable. The **Add New Hardware Wizard** dialog box appears.
   Follow the instructions on the screen.

   Browse the printer driver CD-ROM and navigate to: "drivers\English\Win9x" (for Windows Me and 98).
5. Click Finish. This completes the installation of the USB device driver.
6. When the Add New Hardware Wizard dialog box appears after clicking Finish, click Cancel.

Installing the Printer Driver

Note

Do not use the "Found New Hardware" or "Add New Hardware" wizard to install the TallyGenicom 9316 driver and utilities.

Installing from the CD-ROM

1 Insert the CD-ROM in the CD-ROM drive of your computer. The CD-ROM installer automatically starts.

If not , browse with the Windows Explorer to the CD-ROM and double-click on ***setup.exe****.*

2 Follow the instructions on the screen.

For a USB connection, select "USBxxx" as the printer port.
For a Parallel connection, select "LPTx" as the printer port.

3

Working with the Printer Driver

Displaying Printer Driver Settings

Displaying Settings under Windows XP

1. From the **Start** menu, click **Control Panel**.
2. In **Pick a category**, click **Printers and Other Hardware**.
3. In **Pick a task…**, click **View installed printers or fax printers**.
4. In the **Printers and Faxes** directory, select the **TallyGenicom 9316** printer icon.
5. To display the printer driver settings, from the **File** menu, click **Printing Preferences...**.

Displaying Settings under Windows 2000/Me/98

1. From the **Start** menu, point to **Settings**, and then click **Printers** to display the **Printers** directory.
2. Select the **TallyGenicom 9316** printer icon.
3. Display the printer driver settings:
   - **Windows 2000**—From the **File** menu, click **Printing Preferences...**.
   - **Windows Me/98**—From the **File** menu, click **Properties**, and then click the **Printer Properties** tab.

Using the Printer Driver

Refer to the printer drivers online help for information on all of the functions.

Common Buttons

The buttons described below appear on each tab.

OK

Click to exit the Properties dialog box, saving any changes made.

Cancel

Click to exit the Properties dialog box without saving any changes made.

Apply

Click to save all changes without exiting the Properties dialog box.

Help

Click to view online help.

Easy Set

To save the current settings, click **Save...**. Afterward, the saved settings can be selected from the drop-down list.

Select **Default** from the drop-down list to reset the functions of the tab to their original values.

Page Layout

Check this option button to display a sample of the page layout in the figure area.

Printer Figure

Check this option button to display an image of the printer in the figure area.

Setup Tab

The Setup tab allows you to

- Print several pages of a document on the same page (n-up printing)
- Provide a watermark on printed documents
- Design custom watermarks
- Specify manual duplex printing
- Specify the paper source
- Define the type of media
- Print using a form overlay
- Create/edit a form overlay

Paper Tab

The Paper tab allows you to

- Specify the size of the original document
- Define custom media sizes
- Fit printed documents to a specified media size
- Select the output media size
- Scale (enlarge/reduce) documents
- Adjust the printing position
- Specify the number of copies
- Turn on/off the printer's sorting function
- Turn on/off the Proof Print function
- Specify the orientation of the media
- Rotate the print image 180° to the media orientation

Quality Tab

The Quality tab allows you to

- Specify the resolution
- Adjust the contrast and brightness of the printed document
- Turn on/off Toner Save mode

Device Options Setting Tab

The Device Options Setting tab allows you to

- View version and copyright information about the printer driver

4

Working with the Status Display

Working with the Status Display

Introduction

The Status Monitor shows information about the current status of the computer's local printer.

Environment

The Status Display can be used with Windows XP, 2000, Me, and 98 connected via a parallel cable or USB cable.

Opening the Status Display and Showing the Supplies Status

Use one of the following steps to open the Status Display.

- **Windows XP**—Choose Start, All Programs, then TallyGenicom 9316 Utilities, and then TallyGenicom 9316 Status.
- **Windows Me/2000/98**—From the Start menu, choose Programs, then TallyGenicom 9316 Utilities, and then TallyGenicom 9316 Status.

Altering the Size of the Status Display Window

- From the Display menu, choose Status (Reduce) to decrease the size of the window, or
- From the Display menu, choose Status (Expand) to increase the size of the window.

Using the Status Display

- When the background of the right-hand printer graphic is green, the printer is in standby mode or a job is printing normally.
- When the background of the right-hand printer graphic is red, there is an error and the job has been interrupted. The status of the printer and the error message are shown in the dialog boxes on the left.

The function areas include:

- **Printer status**—Displays text messages that describe the current operational status of the printer.
- **How to recover**—Provides you with explanations of what you need to do in order to correct problems and recover from error conditions.

- **Warning status**—Displays text messages that alerts you of such conditions as low toner.
- **Printer status figure**—Shows a graphic representation of the printer and indicates where the problem is.
- **Printing status**—Displays the status of the current print job.
- **Select popup message**—Allows you to choose which message(s) you want to bring to the foreground when that particular condition occurs with the printer.
- **Maintenance**—Allows you to specify the Midnight Mode functions and Auto Continue functions.
- **Supplies status**—Displays consumables usage statuses (percentage remaining) of the toner cartridge.

Refer to the online help for information on all of its functions.

Recognizing Status Display Alerts

When the Status Display detects a printing problem, several actions occur at the same time, depending on your settings. First, the icon changes from green to yellow or red, depending on the severity of the printer problem.

Refer to the online help for further information on these settings.

Recovering from a Status Display Alert

When the Status Display notifies you of a printing problem, double-click on its icon to open the Status Display. The Status Display identifies which printer has an error and what type of error has occurred.

Refer to the online help for further information on these settings.

Closing the Status Display

To close the Status Display from the File menu, choose **Exit**.

*If you click the **X** button in the upper-right corner of the Status Display window to close the window, the Status Display remains available at the bottom right of the taskbar. Double-click the icon to open it again.*

5 Using Media

About Media

What sizes/weights of media can I use?

Media	Media Size		Weights
	Millimeters	Inches	
A4	210.0 × 297.0	8.2 × 11.7	60–90 g/m² (16–24 lb)
B5 (JIS)	182.0 × 257.0	7.2 × 10.1	
A5	148.0 × 210.0	5.9 × 8.3	
Legal	215.9 × 355.6	8.5 × 14.0	
Letter	215.9 × 279.4	8.5 × 11.0	
Statement	140.0 × 216.0	5.5 × 8.5	
Executive	184.0 × 267.0	7.25 × 10.5	
Folio	210 × 330.0	8.25 × 13.0	
Letter Plus	216 × 322	8.5 × 12.69	
UK Quarto	203 × 254	8 × 10	
Foolscap	203 × 330	8 × 13	
G. Letter	203 × 267.0	8 × 10.5	
G. Legal	216 × 330	8 1/2 × 13	
Chinese 16	185.0 × 260.0	7.3 × 10.2	
Chinese 32	130.0 × 185.0	5.1 × 7.3	
16K	195 × 270	7 3/4 × 10 3/4	
B5 (ISO)	176.0 × 250.0	6.6 × 9.8	
Envelope #10	105 × 241	4.125 × 9.5	
Envelope C5	162.0 × 229.0	6.4 × 9.0	
Envelope DL	110.0 × 220.0	4.3 × 8.7	N/A
Envelope Monarch	98.0 × 191.0	3.875 × 7.5	60–90 g/m² (16–24 lb)
Envelope C6	114.0 × 162.0	4.5 × 6.4	
Envelope Cho #3	120 × 235	4 3/4 × 9 1/4	
Envelope Cho #4	90 × 205	3 1/2 × 8	
Japanese Postcard	100.0 × 148.0	3.9 × 5.8	N/A
Double Postcard	148 × 200	5 3/4 × 7 3/4	
Thick stock			91–163g/m² (25–90 lb)

What type and amount of media can I load?

Media Type / Media Source/Maximum Amount		Input Capacity
		Tray 1
Plain Paper	60–90 g/m^2 (16–24 lb)	150 sheets
Special Media	Envelopes	10 sheets
	Label sheets	10 sheets
	Letter head	10 sheets
	Postcards (Japanese Size)	50 sheets (first face)
		20 sheets (second face)
	Thick paper 91–163 g/m^2 (24–90 lb)	10 sheets
	Transparencies	5 sheets

Note

Do not allow media to go above the fill limit mark inside the tray or the media may not be fed correctly.

Media Storage

Keep media on a flat, level surface in its original wrapper until it is time to load it.

If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place.

When storing media, avoid

- Moisture, excess humidity

  Keep media between 30% to 65% relative humidity. Toner does not adhere well to moist or wet paper

  On the other hand, media that has been stored for a long time without staying in its packaging may dry up too much and also cause jamming.
- Direct sunlight
- Excess heat (up to 35°C/95°F)
- Dust
- Leaning against other objects or placed in an upright position

Before purchasing a large quantity or special media, do a trial printing with the same media and check the print quality.

Media Not Suitable for Printing

Note

Do not use the media types listed below. These could cause poor print quality, media jams, or damage to the printer. Also, using them will void your warranty.

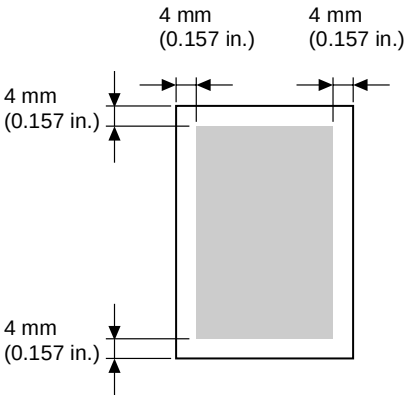
- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, colored paper that has been treated)
- Carbon backed
- Iron-on transfer media (heat-sensitive paper, heat-pressure paper, heat-press transfer paper)
- Cold water transfer paper
- Pressure sensitive
- Special media designed specifically for **inkjet printers** (superfine paper, glossy paper, glossy film, postcards, etc.)
- Media that has already been printed with
  - An inkjet printer
  - A monochrome or color laser printer or copier
  - A heat-transfer printer
  - Another printer or fax machine
- Wet (or damp)
- Layered
- Adhesive
- Folded, creased, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, or torn
- Too slick, too coarse, too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together because of static electricity
- Composed of foil or gilt; too luminous
- Heat sensitive or cannot withstand the fusing temperature (205°C/401°F)
- Irregularly shaped (not rectangular or not cut at right angles)
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

Use media that is

- Suitable for plain-paper laser printers, such as standard paper

What Is the guaranteed imageable (printable) area?

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.



Page Margins

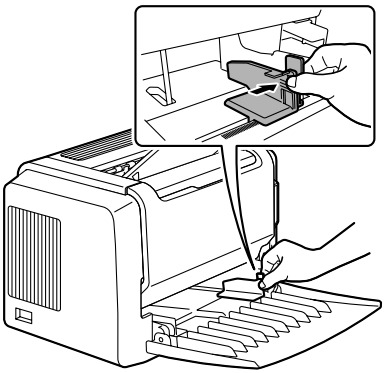
Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

Loading Media

How do I refill Tray 1?

Refill the tray only when it is completely empty.

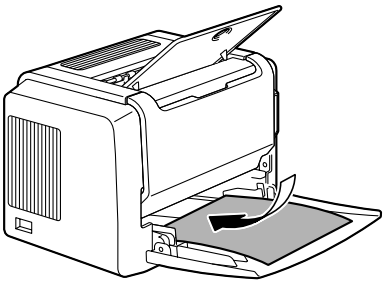
1 Squeeze the right paper guide and open the paper guides.



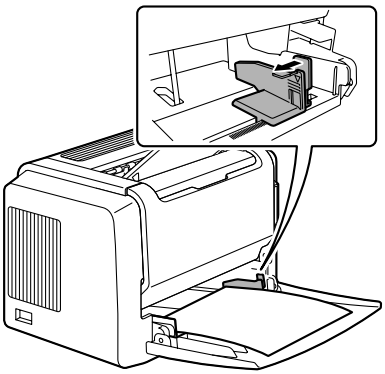
2 Load the media lengthwise and printing-side up in the tray.

A maximum of 150 sheets (75 g/m^2 [20 lb] plain paper) can be loaded. If media is loaded past the media limit mark, it may not be fed correctly.

Load letterhead with the side to be printed facing up and the pre-printed letterhead at the top (facing the printer).



3 Squeeze the right paper guide and adjust the paper guides so that both the left and right sides of the media are secure.



Printing on Media

How do I load and print custom media?

Do not use custom media that does not have approved dimensions

- **Width:** 76 mm (3 in.) up to 216 mm (8.5 in.)
- **Length:** 127 mm (5 in.) up to 356 mm (14 in.)

1. In the printer driver (**Setup** tab/**Media Type** option), select plain paper.
2. Set the media size (**Paper** tab/**Original Document Size**/**Edit Custom...**)
3. Load the custom media lengthwise and printing-side up in Tray 1.
4. Adjust the paper guides to the width of the custom media.

Note

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

5. Print the custom media.

How do I load and print envelopes?

*Before printing on envelopes, we recommend printing a test page. If the print result is not oriented as desired, select **Rotated** (**Paper** tab/ **Orientation** option).*

Do not use envelopes that have

- Sticky flaps
- Tape seals, metal objects, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Rough surface
- Material that will melt, vaporize, or emit dangerous fumes
- Been presealed

Use envelopes that are

- Common office envelopes with diagonal joints, sharp folds and edges, and ordinary gummed flaps
- Approved for laser printing
- Dry

1 In the printer driver (**Setup** tab/**Media Type** option), select **Envelope**.

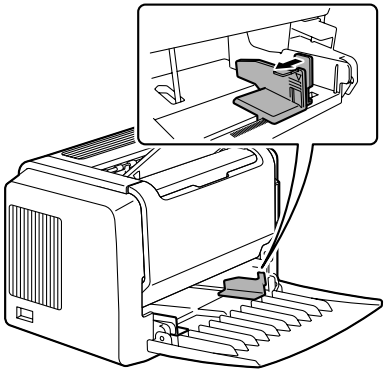
2 Select the size of the envelope (**Paper** tab/**Original Document Size** option).

3 Place the envelopes on a flat surface, and flatten them by pressing down the corners.

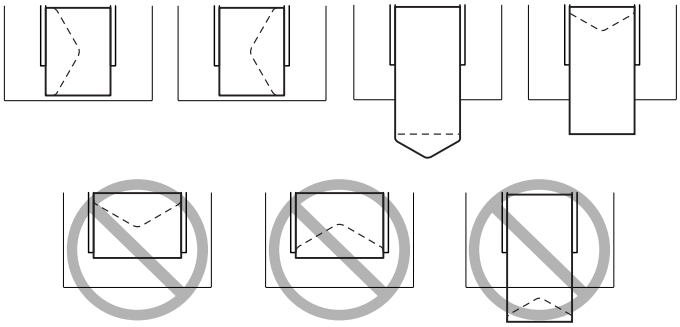
4 Flex the envelope stack (including the edges) to remove any stiffness.

5 Correct any bent corners, and tap the envelopes on a flat surface to align them.

6 Squeeze the right paper guide and open the paper guides.



7 Load the envelopes lengthwise and the printing-side up as shown in the illustrations.



Note

Print envelopes on the front address side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.

8 Recheck the paper guides to make sure they are adjusted to the width of the envelopes.

Note

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

9 Print the envelopes.

10 Open the flap of each envelope immediately (before it cools) after the envelope is delivered to the output tray.

Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

How do I load and print labels?

A label consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- The face sheet must follow the plain paper specification.
- The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.

You can print continuously with label paper. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous print and print one sheet at a time.

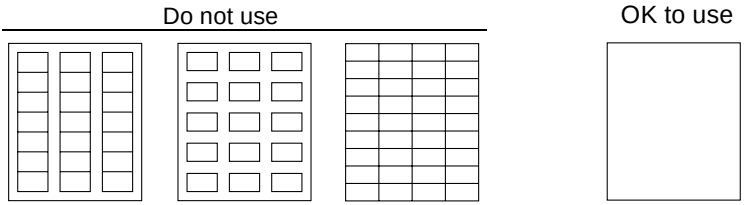
Format label data within your application. Try printing your data on a plain sheet of paper first to check placement. Check your application documentation for other information on printing labels.

Do not use label sheets that

- Have labels that easily peel off

  Labels may stick to the fuser, causing them to peel off and media jams to occur.

- Are precut



Full page labels (uncut)

Use label sheets that are

- Recommended for laser printers

1 In the printer driver (**Setup** tab/**Media Type** option), select **Thick Paper**.
2 Select the size of the label (**Paper** tab/**Original Document Size** option).
3 Load the label media lengthwise and printing-side up in Tray 1.
4 Adjust the paper guides to the width of the label media.

Note

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

5 Print the labels.

How do I load and print postcards?

Do not use postcards that are

- Coated
- Warped or bent
- Designed for inkjet printers
- Multicolored
- Preprinted or multicolored (may result in printer jamming)

Use postcards that are

- Postcards (100 × 148 mm/3.9 × 5.8 in.) recommended for laser printers

1 In the printer driver (**Setup** tab/**Media Type** option), select **Postcard**.
2 Select the size of the postcard (**Paper** tab/**Original Document Size** option).

3 Place the postcards on a flat surface, and flatten them by pressing down the corners.

4 Remove any media in Tray 1.

5 Load the postcard media lengthwise and printing-side up in Tray 1.

6 Adjust the paper guides to the width of the postcards.

Note

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

7 Print the postcards.

How do I load and print thick stock?

Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

Do not use thick stock that is

- Mixed with any other media in the media trays (as this will cause printer jamming)

Note

Do not mix thick stock with any other media in the same tray, as this will cause printer jamming.

1 In the printer driver (**Setup** tab/**Media Type** option), select **Thick Paper**.

2 Select the size of the stock (**Paper** tab/**Original Document Size** option).

3 Load the thick stock media lengthwise and printing-side up in Tray 1.

4 Adjust the paper guides to the width of the thick stock.

Note

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

5 Print the thick stock.

How do I load and print transparencies?

Note

Using unsupported transparency media such as coated color transparencies will result in damaging the printer and in voiding your warranty.

Remove transparency media as soon as possible from the output tray to avoid static buildup.

If you touch the face of transparencies with your bare hands, print quality may be affected. Do not handle transparency media too much.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment. If you have problems loading a large number of transparencies at a time, try loading only 1–10 sheets.

Do not use transparencies that

- Are coated, such as transparencies designed for color printers or copiers
- Have static electricity that will cause them to stick together

Use transparencies that are

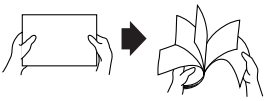
- Monochrome, uncoated transparencies (also known as OHP film)

1 In the printer driver (**Setup** tab/**Media Type** option) select **Transparency**.

2 Select the size of the transparency (**Paper** tab/**Original Document Size** option).

3 Fan a few transparencies.

Fanning a large number will build up static electricity.



4 Load the transparency media lengthwise and printing-side up in Tray 1.

5 Adjust the paper guides to the width of the transparencies.

Note

Improperly adjusted guides may cause poor print quality, media jams, or printer damage.

6 Print the transparencies.

7 Immediately remove the printed transparencies from the output tray.

Manual Duplexing

Select paper with high opacity for duplex (2-sided) printing. For best results, print a small quantity to make sure the opacity is acceptable.

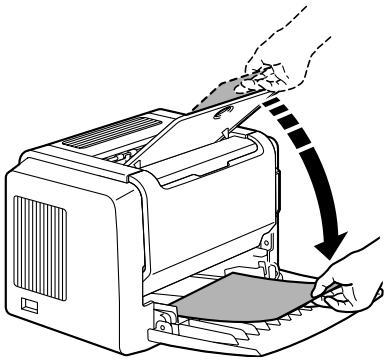
How do I manually duplex?

Media jams may occur if the printed sheet(s) reinserted are not entirely flat.

1 In the printer driver (**Setup** tab/**Duplex**/**Booklet** option), select the appropriate setting from **Short Edge Binding**, **Long Edge Binding**, **Booklet Left Binding**, or **Booklet Right Binding**.

2 From the print dialog box of your software, select the necessary settings and print all pages.

3 Remove the single-sided printouts from the output tray, and then insert them into Tray 1 with the same orientation that they were fed out.



4 Click Proceed on the screen of your PC or press the Cancel button.

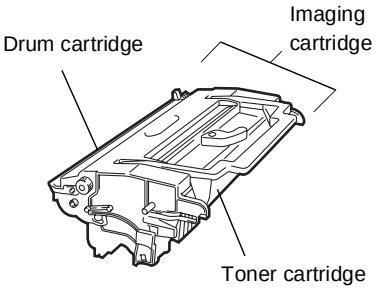
6

Replacing Consumables

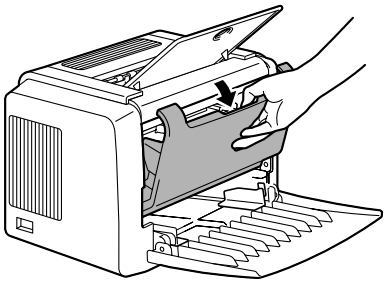
Replacing the Toner Cartridge

When it is time to replace the toner cartridge, "Toner Low" displays in the Status Display. The supplies status indication in the Status Display is only a reference. Printing can continue even though the warning appears. However, printing gradually fades out, so replace the toner cartridge as soon as possible.

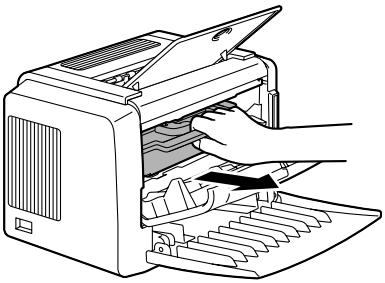
In this manual, a toner cartridge attached to a drum cartridge is referred to as an imaging cartridge.



1 Grab the front cover grip and open the front cover.



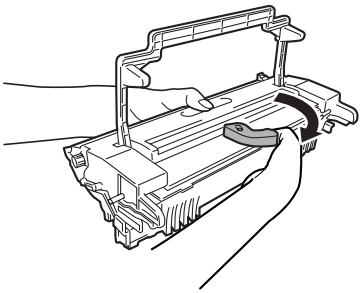
2 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.



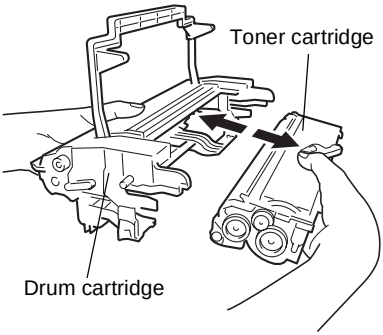
Note

Do not expose the imaging cartridge to light for a long period of time. If the drum cartridge is exposed to light, decreased image quality may result.

3 Move the lever on the toner cartridge in the direction of the arrow.



4 Using both hands, separate the toner cartridge and drum cartridge.

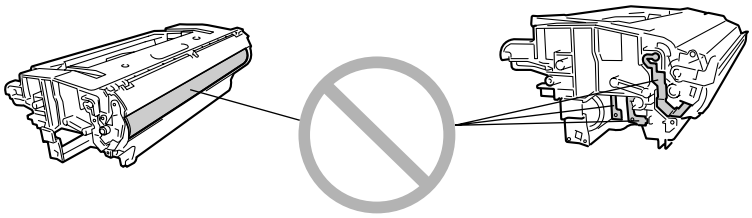


Note

When separating the toner cartridge and drum cartridge, keep them level.

Do not touch the OPC drum under the flap of the drum cartridge, otherwise decreased image quality may result.

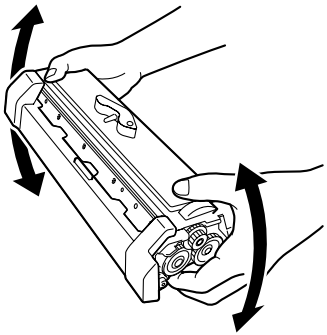
Do not touch any metal parts of the drum cartridge and toner cartridge, otherwise damage from static electricity may result.



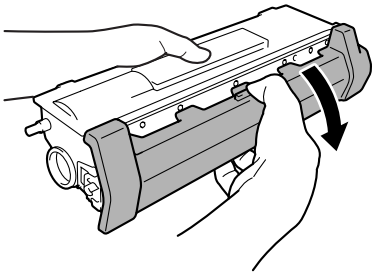
5 Remove a new toner cartridge from its box.

Do not throw away the box. It may be used to pack the used toner cartridge.

6 Holding it firmly with both hands, rock the toner cartridge left and right, to distribute the toner evenly.

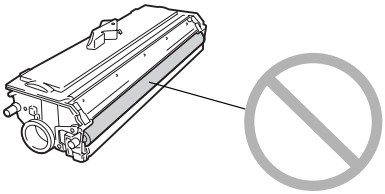


7 Remove the protective cover from the toner cartridge.

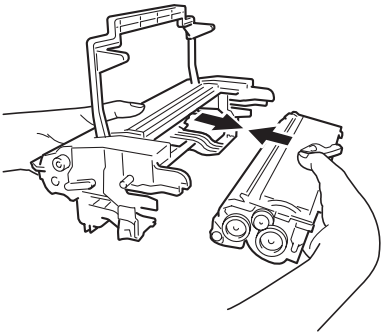


Note

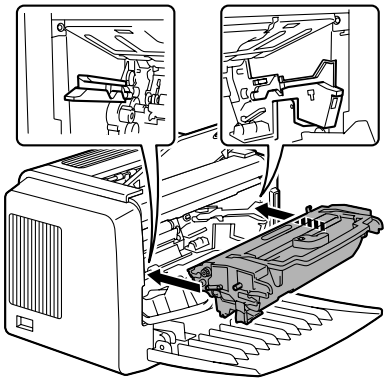
Do not touch the developing roller of the toner cartridge, otherwise decreased image quality may result.



8 Holding both the toner cartridge and the drum cartridge in your hands, align the colored guide on the drum cartridge with the matching colored projection on the toner cartridge to fit the two cartridges together.



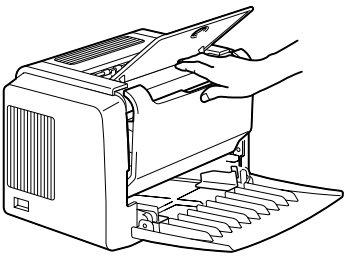
9 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.



Note

Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.

10 Press on the front cover grip and close the front cover.



11 Place the used toner cartridge into the box that came with the new toner cartridge.

Replacing the Drum Cartridge

When the printed documents become faint or blurred, the drum cartridge may be at the end of its life.

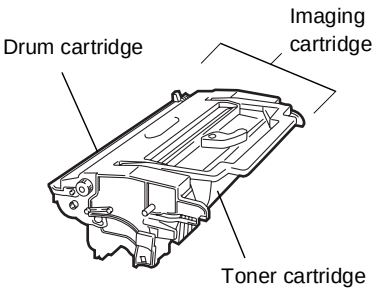
The drum cartridge has a capacity of about 16,000 (one-page jobs) to 20,000 (continuous printing) letter/A4 pages (at an average of 5% or less toner coverage).

Select the **Print** menu in the Status Display, print out the Configuration page (**Print Config Page**), and then check the total number of printouts.

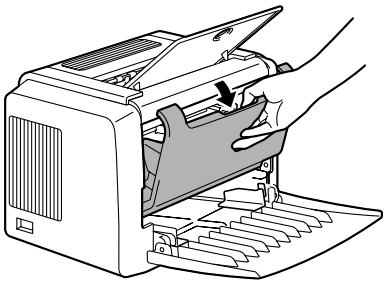
Note

The OPC drum is extremely sensitive to bright light, direct sunlight, and touch. Always leave the drum cartridge in its protective package until you're ready to install it.

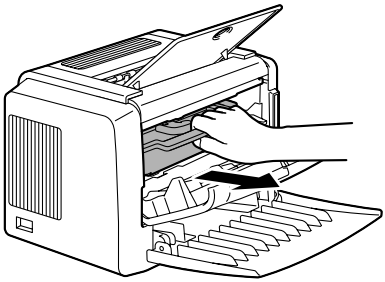
In this manual, a toner cartridge attached to a drum cartridge is an imaging cartridge.



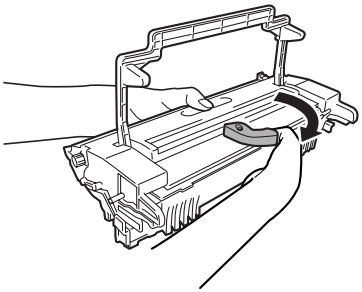
1 Grab the front cover grip and open the front cover.



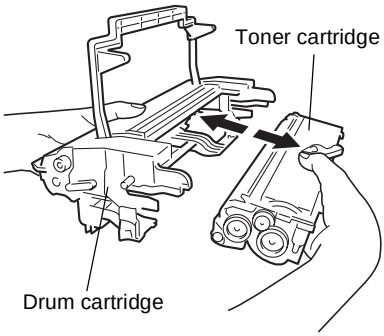
2 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.



3 Move the lever on the toner cartridge in the direction of the arrow.



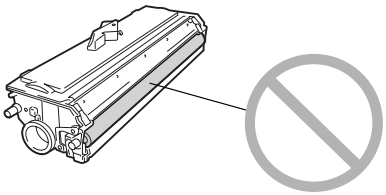
4 Using both hands, separate the toner cartridge and drum cartridge.



Note

When separating the toner cartridge and drum cartridge, keep them level.

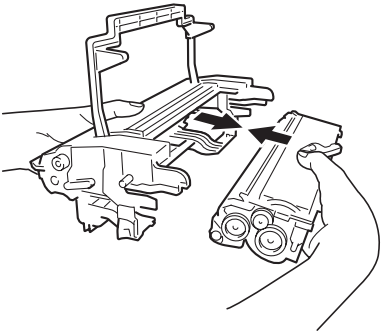
Do not touch the developing roller of the toner cartridge, otherwise decreased image quality may result.



5 Remove a new drum cartridge from its box.

Do not throw away the box. It will be used to pack the used drum cartridge.

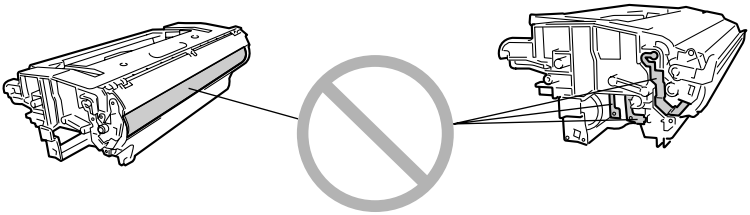
6 Holding both the toner cartridge and the drum cartridge in your hands, align the colored guide on the drum cartridge with the matching colored projection on the toner cartridge to fit the two cartridges together.



Note

Do not touch the OPC drum under the flap of the drum cartridge, otherwise decreased image quality way result.

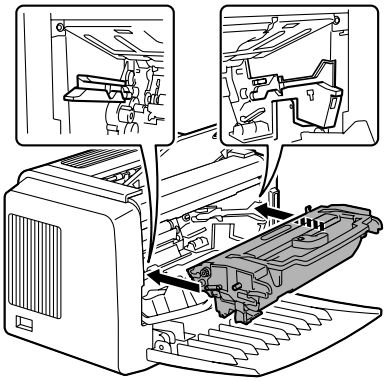
Do not touch any metal parts of the drum cartridge and toner cartridge, otherwise damage from static electricity may result.



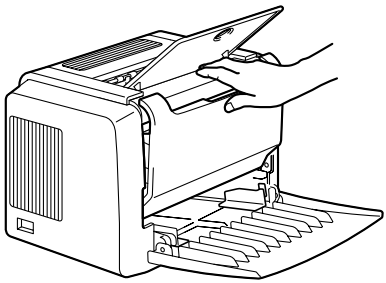
7 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.

Note

Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.



8 Press on the front cover grip and close the front cover.



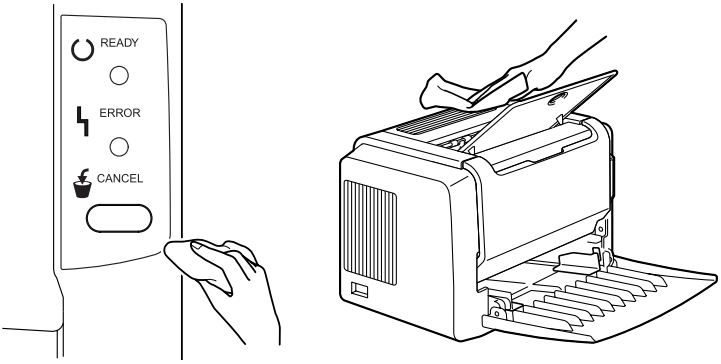
9 Place the used drum cartridge into the box that came with the new drum cartridge.

7

Maintaining the Printer

Cleaning the Printer

Exterior



Note

Never spray cleaning solutions directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits.

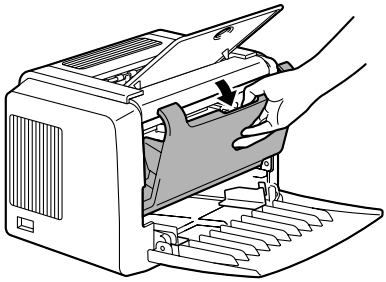
CAUTION

Do not spill water or detergent into the printer; otherwise the printer will be damaged and an electric shock may occur.

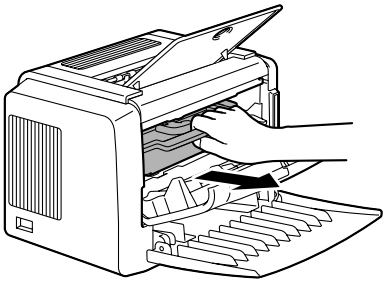
Pick-up Roller

1 Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning.

2 Grab the front cover grip and open the front cover.



3 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.

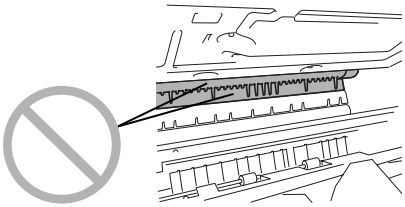


Note

Do not expose the imaging cartridge to light for a long period of time. If the drum cartridge is exposed to light, decreased image quality may result.

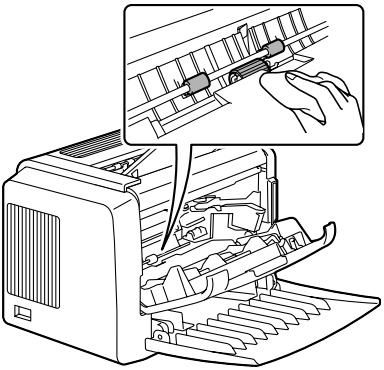
CAUTION

The fusing unit is extremely hot. Touching any part near the fusing unit may result in burns.

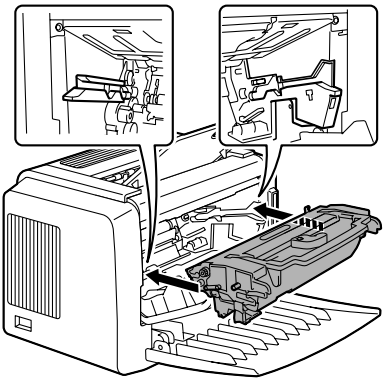


Do not touch the image transfer roller inside the printer, otherwise decreased image quality may result.

4 Wipe the pick-up roller with a soft, dry cloth.



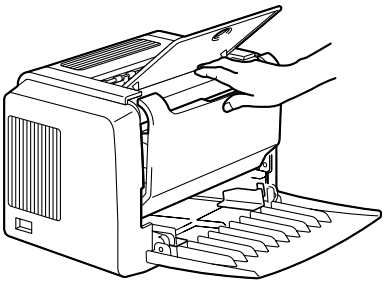
5 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.



Note

Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.

6 Press on the front cover grip and close the front cover.



8 Troubleshooting

Indicator Messages

The control panel indicators (Ready, Error) provide information about your printer and help you locate each problem.

Error Messages

These messages indicate errors which you must correct before a print job can continue or the printer status returned to “Ready”.

Ready indicator (green)	Error indicator (orange)	Condition	Action
Blinking	Blinking	Communication Error.	Check the printer cable.
		Video Under-run	Turn off the printer. After a few seconds, turn on the printer. Change to a lower resolution.
Rapid blinking alternately		No media in the tray specified in the printer driver.	Load the appropriate type of media into Tray 1.
		Media size error If the “Auto Continue” option has been activated in the Status Display, the sheet already fed in, is automatically ejected after a predetermined time.	Load the appropriate size media into Tray 1.
		Waiting for the Manual Duplex.	Load the second side of the media. (Refer to the “Manual Duplexing” on page 31.)
		Waiting for a proof print	Press the Cancel button if the proof print is acceptable. If it is not acceptable, hold down the Cancel button for more than 5 seconds to cancel the current job.

Ready indicator (green)	Error indicator (orange)	Condition	Action
Off	Slow blinking	Paper empty	Load media into Tray 1.
Off	Blinking	Media jam	Clear the jam, close the front cover, and then continue with the print job.
Off	On	Front cover or top cover is open.	Close the front cover or top cover.

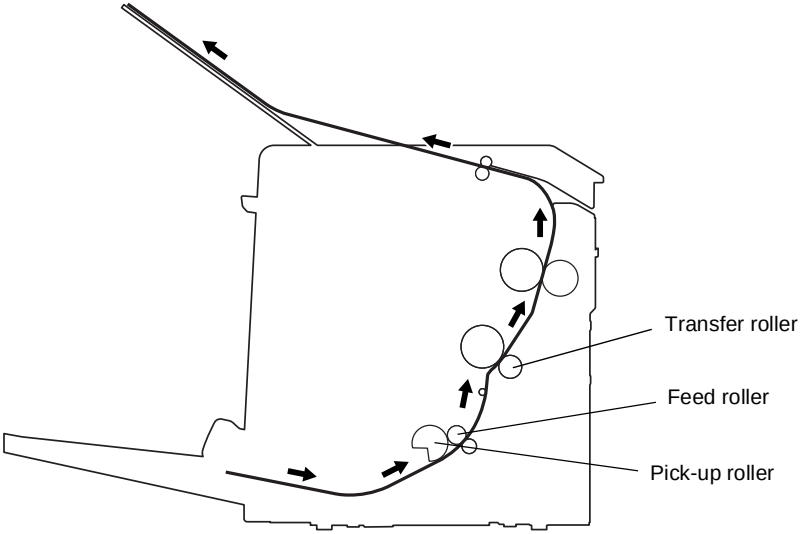
Service Messages

This message indicates a more serious fault that can only be corrected by a customer service engineer.

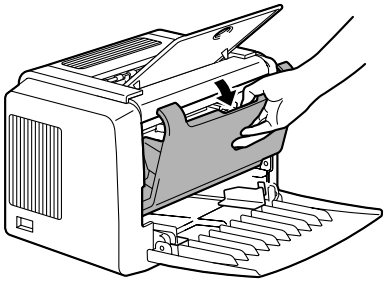
Ready indicator (green)	Error indicator (orange)	Condition	Action
Off	Rapid blinking	Fatal error	Turn the printer off, then on again. If the problem persists, contact your vendor or authorized service provider.

Clearing Jams

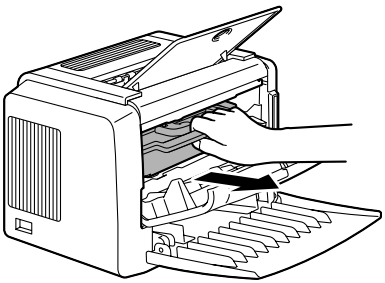
Understanding the printer's media path will help you locate media jams.



1 Grab the front cover grip and open the front cover.



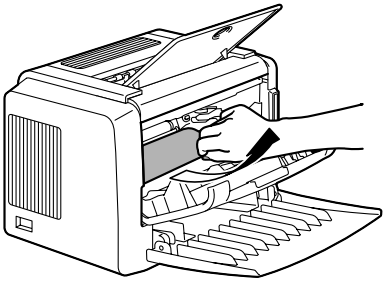
2 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.



Note

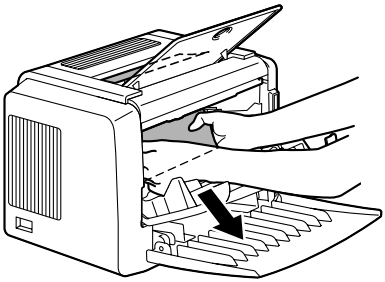
Do not expose the imaging cartridge to light for a long period of time, otherwise decreased image quality may result.

3 Pull out the jammed media along the feeding direction.



Note

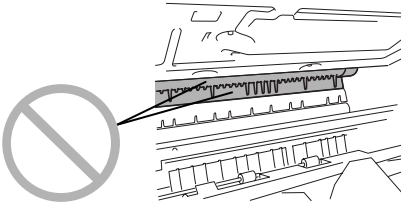
If media is jammed in the fusing unit, pull the media downward to remove it.



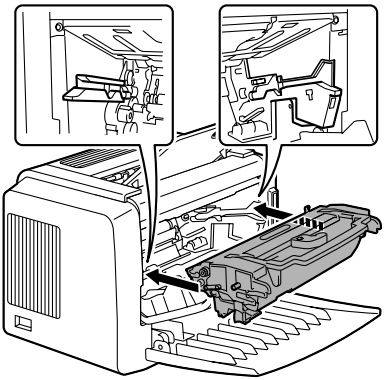
CAUTION

The fusing unit is extremely hot. Touching any part near the fusing unit may result in burns.

Do not touch the image transfer roller inside the printer, otherwise decreased image quality may result.



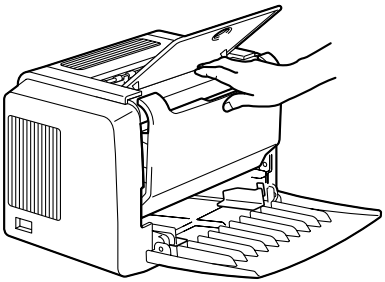
4 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.



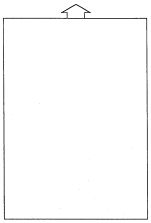
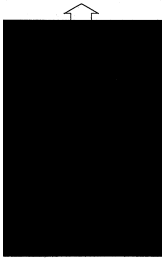
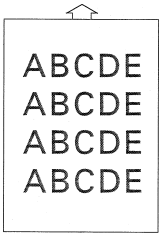
Note

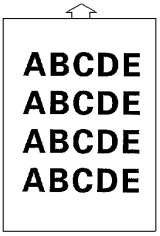
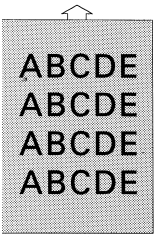
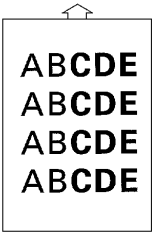
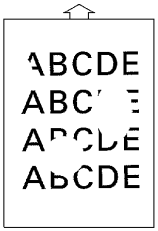
Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.

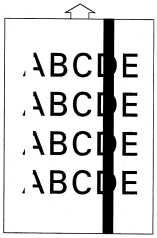
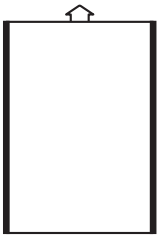
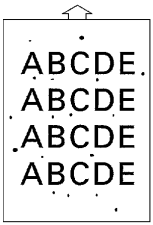
5 Press on the front cover grip and close the front cover.



Solving Problems-Printing Quality

Symptom	Cause	Solution
Blank page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Black page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	Your printer may require servicing.	Contact your local vendor, or refer to the General Information Guide.
Print too light 	The toner cartridge may running out of toner.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner. If the problem persists, replace the toner cartridge.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	The “Contrast” and “Brightness” of an image is not set correctly in the printer driver.	In the printer driver, select the **Quality** tab and adjust the **Contrast** and **Brightness** and try printing again.

Symptom	Cause	Solution
Print too dark 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	The “Contrast” and “Brightness” of an image is not set correctly in the printer driver.	In the printer driver, select the **Quality** tab and adjust the **Contrast** and **Brightness** and try printing again.
Blurred background 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Uneven print density 	The toner may be unevenly distributed inside the toner cartridge.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	The image transfer roller may be defective.	Contact your local vendor.
Irregularities 	The media may have absorbed some moisture due to high humidity or because of direct contact with water.	Since toner will not adhere well to wet media, replace the media you are using with dry media and try printing again.

Symptom	Cause	Solution
White or black lines 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Dark lines on the edges. 	The transfer roller is dirty.	Contact your local vendor.
Toner smudges 	The toner may be unevenly distributed inside the toner cartridge.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	Smudges on the media indicate a dirty feed roller.	Contact your local vendor.

Symptom	Cause	Solution
There is insufficient fusing or the image comes off when rubbed. 	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Media with specifications not covered by the printer warranty is being used.	Use media that is covered by the printer warranty.
	The media type may be incorrectly set.	When printing envelopes, labels, thick stock, and transparencies, the appropriate media type must be specified in the printer driver.

Appendix A

Safety Specifications

Printer		
Safety standards	European model	EU Directive 73/23/EEC EU Directive 93/68/EEC EN 60950 (IEC 60950)
EMC standards	European model	EU Directive 89/336/EEC EN 55022 (CISPR Pub. 22) class B EN 61000-3-2 EN 61000-3-3

Technical Specifications

Printer

Type	Desktop laser beam printer
Print system	Electrostatic dry powder imaging system
Exposure system	Laser diode + polygon mirror scanning
Developing system	Electrophotographic printing system
Resolution	1200dpi × 1200dpi (at half speed), 600dpi × 600dpi or 1200dpi × 600dpi
Print speed	600dpi × 600dpi or 1200dpi × 600dpi 16 pages per minute for A4 17 pages per minute for letter 1200dpi × 1200dpi 10 pages per minute for A4 or letter
First print	1200dpi × 600 dpi Within 13 seconds (A4/Letter) 1200dpi × 1200 dpi Within 22 seconds (A4/Letter)
Warm-up time	21 seconds or less at startup
Media sizes	• Paper—Letter, Legal, Executive, G Letter, Statement, Folio, Letter Plus, UK Quarto, Foolscap, G Legal, 16K, A4, A5, B5 JIS, Chinese 16K, Chinese 32K, custom paper sizes • Envelopes—#10, Monarch, DL, C5, C6, B5 (ISO), Choukei-3Gou and Choukei-4Gou • Postcard, Double Postcard

Paper/Media	• Plain paper (60 to 90g/m^2; 16 to 24 lb.) • Recycled paper (60 to 90g/m^2; 16 to 24 lb.) • Transparencies • Envelopes • Thick paper (90 to 163g/m^2; 24 to 43 lb.) • Postcard • Letterhead • Label sheet
Paper feeding	• Tray 1
Input capacity	• Tray 1: 150 sheets
Output capacity	• Output tray: 100 sheets
Operating temperature	10° to 35°C (50° to 95°F)
Operating humidity	15 to 85%
Power supply	110-127 V, 50-60 Hz 220-240 V, 50-60 Hz
Power consumption	120 V: 900 W 220-240 V: 900 W
Amperage	120 V: 8.0 A or less 220-240 V: 4.5 A or less
Acoustic Noise	Printing: 54 dB or less Standby: 35 dB or less
External dimensions (with Tray1 and the output tray closed)	Height: 283 mm (11.1 in.) Width: 387 mm (15.2 in.) Depth: 291 mm (11.5 in.)
Weight	Printer: approximately 6kg (13.2 lb.) Drum cartridge: approximately 0.3kg (0.7 lb.) Toner cartridge: approximately 0.5kg (1.1 lb.)
Interface	IEEE 1284 compliant type B (Compatible/Nibble/ECP) USB Revision 1.1 compliant
CPU	Naltec N1 chip
Standard memory	8 MB

Parallel Interface Connectors and Cable

Connectors	Printer: Parallel 36-pin connector Computer: EIA 25-pin connector
Cable type	Shielded Each signal and earth pair should be twisted
Pin assignments	IEEE 1284 compliant type B connector

USB Interface Connectors and Cable

Connectors	Printer: Series B plug Computer: Series A plug
Cable type	Require twisted data conductors or a shielded
Pin assignments	1: V_{BUS} 2: D+ 3: D- 4: GND Shell: Shield

Consumables Life Expectancies Chart

Item	**Average Life Expectancy (in Simplex Pages)**
Toner Cartridge	At 5% coverage, using A4-size media **Starter Cartridge** = 1,500 printing **Replacement Cartridge** = 3,000 continuous printing or 2,400 intermittent printing. 6,000 continuous printing or 4,800 intermittent printing.
Drum cartridge	16,000 intermittent printing (for example, one-page jobs) 20,000 continuous printing

CE Marking (Declaration of Conformity)

For European Users

This product complies with the following EU directives: 89/336/EEC, 73/23/EEC, and 93/68/EEC directives.

This declaration is valid for the areas of the European Union (EU) only.

This device must be used with a shielded parallel interface cable and shielded USB interface cable. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under 89/336/EEC rules.

CISPR 22 and Local Rules

This device must be used with a shielded parallel interface cable and shielded USB interface cable.

The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under CISPR 22 and local rules.

Acoustic Noise

Machine Noise Regulation 3 GSGV, 18.01.1991: The sound pressure level at the operator position according to EN27779 is equal to or less than 70dB (A).

Safety Information

This section contains detailed instructions on the operation and maintenance of this machine. To achieve optimum utility of this device, all operators should carefully read and follow the instructions in this manual.

Please read the next section before using this device. It contains important information related to user safety and preventing equipment problems.

Make sure you observe all of the precautions listed in this manual.

- Note that some parts of the contents of this section may not correspond with the purchased product.

Warning and Precaution Symbols

⚠ **WARNING**	Ignoring this warning could cause serious injury or even death.
⚠ **CAUTION**	Ignoring this caution could cause injury or damage to property.

Meaning of Symbols

A triangle indicates a danger against which you should take precaution.

This symbol warns against cause burn.

A diagonal line indicates a prohibited course of action.

This symbol warns against dismantling the device.

A black circle indicates an imperative course of action.

This symbol indicates you must unplug the device.

⚠ WARNING

	• Do not modify this product, as a fire, electrical shock, or breakdown could result. If the product employs a laser, the laser beam source could cause blindness. • Do not attempt to remove the covers and panels which have been fixed to the product. Some products have a high-voltage part or a laser beam source inside that could cause an electrical shock or blindness.
	• Only use the power cord supplied in the package. Failure to use this cord could result in a fire or electrical shock. • Use only the specified power source voltage. Failure to do that could result in a fire or electrical shock. • Do not use a multiple outlet adapter to connect any other appliances or machines. Use of a power outlet for more than the marked current value could result in a fire or electrical shock.
	• Do not unplug and plug in the power cord with a wet hand, as an electrical shock could result.
	• Plug the power cord all the way into the power outlet. Failure to do this could result in a fire or electrical shock.
	• Do not scratch, abrade, place a heavy object on, heat, twist, bend, pull on, or damage the power cord. Use of a damaged power cord (exposed core wire, broken wire, etc.) could result in a fire or breakdown. Should any of these conditions be found, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. • In principle, do not use an extension cord. Use of an extension cord could cause a fire or electrical shock. Contact your authorized service representative if an extension cord is required.

	• Do not place a flower vase or other container that contains water, metal clips or other small metallic objects on this product. Spilled water or metallic objects dropped inside the product could result in a fire, electrical shock, or break-down. • Should a piece of metal, water, or any other similar foreign matter get inside the product, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative.
	• If this product becomes inordinately hot or emits smoke, or unusual odor or noise, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. If you keep on using it as is, a fire or electrical shock could result. • If this product has been dropped or its cover damaged, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. If you keep on using it as is, a fire or electrical shock could result.
	• Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.
	• Connect the power cord to an electrical outlet that is equipped with a grounding terminal.

⚠ CAUTION

- Do not use flammable sprays, liquids, or gases near this product, as a fire could result.
- Do not leave a toner unit or drum unit in a place within easy reach of children.
  Licking or ingesting any of these things could injure your health.
- Do not let any object plug the ventilation holes of this product. Heat could accumulate inside the product, resulting in a fire or malfunction.
- Do not install this product at a site that is exposed to direct sunlight, or near an air conditioner or heating apparatus. The resultant temperature changes inside the product could cause a malfunction, fire, or electrical shock.
- Do not place the product in a dusty place, or a site exposed to soot or steam, near a kitchen table, bath, or a humidifier. A fire, electrical shock, or breakdown could result.
- Do not place this product on an unstable or tilted bench, or in a location subject to a lot of vibration and shock. It could drop or fall, causing personal injury or mechanical breakdown.
- After installing this product, mount it on a secure base. If the unit moves or falls, it may cause personal injury.
- Do not store toner units and PC drum units near a floppy disk or watch that are susceptible to magnetism. They could cause these products to malfunction.
- Do not place any objects around the power plug as the power plug may be difficult to pull out when an emergency occurs.
- Do not touch the electrical contacts that are located inside the top cover and underneath the cartridge as an electrostatic discharge may damage the printer.

- The inside of this product has areas subject to high temperature, which may cause burns. When checking the inside of the unit for malfunctions such as a paper misfeed, do not touch the locations (around the fusing unit, etc.) which are indicated by a “Caution! Hot Surface” caution label.

- The socket-outlet shall be installed near the machine and shall be easily accessible as the power plug may be difficult to pull out when an emergency occurs.
- Always use this product in a well ventilated location. Operating the product in a poorly ventilated room for an extended period of time could injure your health. Ventilate the room at regular intervals.
- Whenever moving this product, be sure to disconnect the power cord and other cables. Failure to do this could damage the cord or cable, resulting in a fire, electrical shock, or breakdown.
- When moving this product, always hold it by the locations specified in the user manual or other documents. If the unit falls it may cause severe personal injury. The product may also be damaged or malfunction.
- Remove the power plug from the outlet more than one time a year and clean the area between the plug terminals. Dust that accumulates between the plug terminals may cause a fire.
- When unplugging the power cord, be sure to hold onto the plug. Pulling on the power cord could damage the cord, resulting in a fire or electrical shock.

Working Safely with your Laser Printer

Notes on your Safety and Operating Safety

Working improperly with the printer can result in health hazards, electric shocks and even fires. Before you unpack the laser printer, you should make yourself familiar with this information on your safety and operating safety.

CAUTION

Observe the following information:

- Make sure that the power cord is correctly plugged into the socket and that the socket is at all times visible and readily accessible.
- Do not pull on the cord to pull the power plug out of the socket as this may damage the cord. The result could be an electric shock or a fire.
- Remove the power plug from the socket if the machine will not be in use for an extended period of time.
- Do not remove the power cord from the socket with wet hands as this may result in an electric shock.

- Do not move the unit unless the power cord has been removed from the socket. Otherwise you may damage the cord. The result could be a short-circuit or a fire.
- Do not place any heavy objects on the power cord. Do not pull or kink the cord as this can result in damage to the cord. The result could be an electric shock or a fire.
- Make sure that the machine is not standing on a cord to another machine as this can result in damage to that cord. The result could be a fire or improper functioning of the unit in question.
- Make sure that the power supply to the unit has the correct voltage. Otherwise the result could be a fire or an electric shock.
- Switch off the unit immediately and unplug the power cord if the power supply cord is damaged. Failure to do so could result in a fire or an electric shock. Inform your customer support technical specialist.
- Use only extension cords that are designed for at least the maximum power rating of the machine. Extension cords with lower ratings can result in the unit overheating and can even lead to a fire.
- Perform only the procedures that are described in this manual. Using the machine improperly can result in a fire or an electric shock.
- Do not place any heavy objects on the machine.
- Do not open any covers on the machine while printing is in progress.
- Do not switch off the unit while printing is in progress.
- Do not place any magnetic objects near the machine.
- Do not use any flammable sprays, liquids or gases in the vicinity of the machine.
- Do not remove any safety devices and do not alter the construction of the machine. The unit is equipped with high-voltage components. Using the machine improperly can result in a fire or an electric shock.
- Do not insert any paper clips, staples or other small metal objects into openings on the machine. The result could be an electric shock or a fire. If metal pieces are fed into the machine, switch it off immediately, disconnect the power cord and inform your customer support technical specialist.
- Do not place coffee cups, drinks bottles or other containers with liquids in them on the machine. If liquid enters the machine the result could be an electric shock or a fire. If liquid does get into the machine, switch it off immediately, disconnect the power cord and inform your customer support technical specialist.
- If the machine becomes unusually hot, or if you notice smoke or an unusual odor coming from the machine, switch it off immediately and

remove the power cord from the socket. Inform your customer support technical specialist.

Laser Safety

This printer is a page printer which operated by means of a laser. There is no possibility of danger from the laser, provided the printer is operated according to the instructions in this manual.

Since radiation emitted by the laser is completely confined within protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

Internal Laser Radiation

Maximum average radiation power:

36.903µW at the laser aperture of the print head unit.

Wavelength: 770-800 nm

This product employs a Class 3b laser diode that emits an invisible laser beam.

The laser diode and the scanning polygon mirror are incorporated in the print head unit.

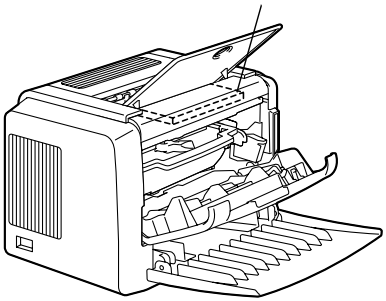
The print head unit is NOT A FIELD SERVICEABLE ITEM.

Therefore, the print head unit should not be opened under any circumstances.

WARNING!

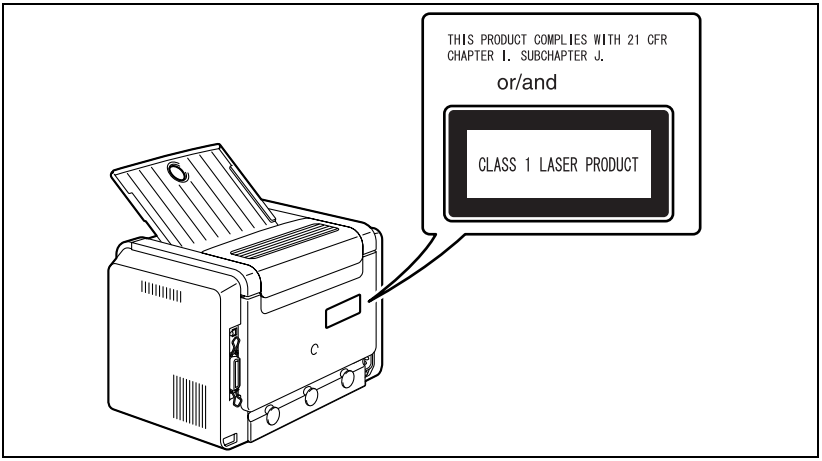
The print head unit is NOT A FIELD SERVICE ITEM. Therefore, the print head unit should not be opened under any circumstances.

Laser aperture of the print head unit.



Laser Safety Label

A laser safety label is attached to the outside of the machine as shown below.



CAUTION

Use of controls, adjustments, or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

This is a semiconductor laser. The maximum power of the laser diode is 15 mW, and the wavelength is 770–800 nm.

For Users in All Countries

CAUTION

Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

This machine is certified as a Class 1 laser product. This means that the machine does not produce hazardous laser radiation.

This is a semiconductor laser. The maximum power of the laser diode is 15 mW and the wavelength is 770-800 nm.

For Denmark Users

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

Klasse 1 laser produkt der opfylder IEC60825 sikkerheds kravene.

Dansk: Dette er en halvlederlaser. Laserdiodens højeste styrke er 15 mW og bølgelængden er 770-800 nm.

For Norway Users

ADVERSEL

Dersom apparatet brukes på annen måte enn spesifisert i denne bruksanvisning, kan brukeren utsettes for unsynlig laserstråling som overskrider grensen for laser klass 1.

Dette en halvleder laser. Maksimal effekt till laserdiode er 15 mW og bølgelengde er 770-800 nm.

For Finland, Sweden Users

LOUKAN 1 LASERLAITE

KLASS 1 LASER APPARAT

VAROITUS!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

Tämä on puolijohdelaser. Laserdiodin suurin teho on 15 mW ja aallonpituus on 770 – 800 nm.

VARNING!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

Det här är en halvledarlaser. Den maximala effekten för laserdioden är 15 mW och våglängden är 770 – 800 nm.

VARO!

Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

VARNING!

Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Ozone release

During printer operation, a small quantity of ozone is released. This amount is not large enough to harm anyone adversely. However, be sure the room where the machine is being used has adequate ventilation, especially if you are printing a high volume of materials, or if the machine is being used continuously over a long period.

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